MINIMOTO™ HYBRID

Contents	Page
Introduction	2
MINIMOTO™ HYBRID **Owner's manual and safety information**	3
Warnings	4 - 5
Electrical hazard	6
Vehicle assembly and set up	7 - 8
Installing the main fuse	9
Brake adjustment	9
Storage carry area	9
Battery charging information	10
Steps to charge battery	11
Battery care	12
Riding rules	13
Pre-ride checklist	14
How to ride your MINIMOTO™ HYBRID Bike	15
Special safety warnings	15
Periodic brake adjustment	16
Tire inflation procedure	16
Tire repair	17
Replacing the main fuse	17
If you lose the keys	18
Replacing the battery	19
Replacing the chain if it "Pops off"	20 - 21
Battery disposal	22
Troubleshooting	23 - 24
Limited warranty and registration	25
Registration card/Vin number	26
Appendix — spare part list	27 - 28

Introduction:

Congratulations of your purchase of the MINIMOTO™ HYBRID bicycle. The unique Hybrid mechanism inside the drive train allows a “power assist” of the normal peddling of the bike. You can use it to stretch out your coasting or even to help to make an incline easier to accomplish. The pedalling allows you the freedom to go anywhere a bicycle can go without worrying if the batteries run down. The system includes a quick charging system that will give the batteries up to 80% of their charge in as little as 5 hours.

Please read the instructions in the booklet carefully and keep them in a safe place.

MINIMOTO™ HYBRID

Owner's manual and safety instructions

Carefully read this manual completely before operating your electric MINIMOTO™ HYBRID bike. Keep this manual in a safe place for future reference. Be sure you thoroughly understand how to operate the components of your MINIMOTO™ HYBRID bike.

Note: throughout this manual there are many "warnings". Be sure to read and understand all of these "warnings". Please play extremely close attention to these areas as serious injury or even death may result in failing to do so.

WARNING: This vehicle is a serious machine and should be treated with respect when riding. It can obtain speeds that only qualified riders of the proper age and maturity should attempt.

This vehicle can obtain speeds that only qualified riders of the proper age, size, and maturity should attempt. That decision rests entirely on the observation and discretion of the direct supervising adult.

IMPORTANT!!! Before we begin:

Like any two wheeled vehicle, riding the MINIMOTO™ HYBRID bike can be extremely hazardous. It is your responsibility to follow this manual for the proper set up, inspection, riding procedure, protective gear required, and rules of the road to reduce the risk of serious injury.

The age recommendation is only an estimate. If the rider is too small, too large, or too old to comfortably fit on the MINIMOTO™ HYBRID bike, he/she should not attempt to ride it. The MINIMOTO™ HYBRID bike is not designed for or intended to be used by of anyone under the age of 8.

Keep away from small children.

FOR WEBSITE INFORMATION OR REGISTRATION AND CUSTOMER SERVICE GO TO

www.teamminimoto.com

WARNINGS:

This product is meant for outdoor use only and only on private property. Never ride your MINIMOTO™ HYBRID bike on public streets, alleys, or other public roads or thoroughfares. IT MUST NEVER BE RIDDEN IN ANY AREA THAT COULD POTENTIALLY DO HARM TO HUMANS, ANIMALS, OR PROPERTY DAMAGE.

NEVER RIDE AROUND THE VICINITY OF SMALL CHILDREN WHO MAY ENTER YOUR PATH.

Special notes for supervising adults of the rider:

1) The decision to allow a rider to ride the MINIMOTO™ HYBRID must be done with the permission of a directly supervising adult. The directly supervising adult must read and follow all of the contents of the owners manual before making this decision.

2) The rider must have previous experience in riding electric powered vehicles before attempting to ride the MINIMOTO™ HYBRID. It is the responsibility of the supervising adult to ensure the rider has the specific talent, physical ability, and training before allowing them to attempt to ride the Hybrid.

3) The MINIMOTO™ HYBRID is never to be ridden indoors. Indoor flooring and carpets can be damaged from abrasive contact with the tires. The manufacturer will not be responsible for any indoor damage if the MINIMOTO™ HYBRID is used in this manner.

4) The MINIMOTO™ HYBRID is designed to run on clean, flat, dry, and generally hard surfaces by persons over 8 years of age. It should not be used on gravel or grass.

5) The rider of a MINIMOTO™ HYBRID should always wear appropriate footwear. Open-toed shoes should never be allowed. Keep shoe laces and pant legs away and clear of the wheels.

6) The rider must wear a safety helmet, elbow and kneepads to avoid injury if falling. Failure to wear a standard approved helmet may result in serious personal injury or death.

7) The MINIMOTO™ HYBRID is never to be ridden by more than one person at a time. In addition, it is not designed to pull or tow anything behind it as it may result in serious damage to the motor or internal parts. Do not exceed the maximum capacity of 175 lbs (80 kg).

8) The MINIMOTO™ HYBRID cannot be used on wet surfaces or in wet weather. Never immerse any part of the MINIMOTO™ HYBRID in water. Moisture can damage the motor, switches, and drive components.

9) The MINIMOTO™ HYBRID should never be ridden in mud, puddles, water, ice, slick or bumpy surfaces. It is not designed to go over curbs or extreme terrain changes in the roadway.

10) The electric motor can become hot when in use. Do not touch it at anytime and handle it carefully.

11) Never use your MINIMOTO™ HYBRID while using personal radios or headphones.

12) Do not use your MINIMOTO™ HYBRID for stunt riding, ramp jumping, acrobatics or similar activities.

WARNINGS: (Cond't)

13) Never inflate the tires beyond 45PSI. **The recommended tire pressure is 40 PSI.** Inflation of the tires should be by adults only. Serious injury or death may result in over inflation of the tires occurs. Avoid filling the tires at a gas station. The greater pressure of a gas station air pump makes a blowout of the tire possible. This may result in serious injury or death. Never use non-MINIMOTO™ replacement parts.

14) If there is any problem or question with the MINIMOTO™ HYBRID , please contact the Minimoto Service Center by calling the toll free number:

1-800-434-6178

between the hours of 8 am to 4 pm EST, Monday through Friday (excluding holidays).

or by email:

customerservice@teamminimoto.com

Do not return the product to the store. Contact the Minimoto Service Center. Authorized service is only available through the official Minimoto Service Center. Spare tires, inner tubes, battery, and replacement parts can be obtained through the Minimoto Service Center.

Service Center Address:

Toy Quest
c/o Minimoto Service Center
1800 N. 9th Street
Indianola, Iowa 50125

15) SB 1918 (CALIFORNIA) declaration:

Your insurance policies may not provide coverage for accidents involving the use of this product. To determine if coverage is provided, contact your insurance company or agent.

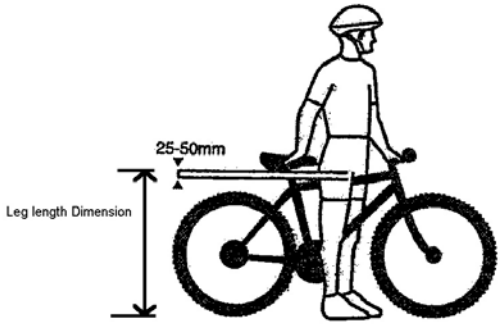
Warnings

Warning: Over tightening the stem bolt or headset assembly may cause damage to the bicycle and/or injury to the rider.

Ensure all bearings are lubricated, run freely and display no excess movement, grinding or rattling.
Check headset, wheel bearings, pedal bearings and bottom bracket bearings.
Periodically inspect the seat clamp lever for tightness.
Ensure the seat post is properly tightened before each use.

The minimum leg length dimension is 64 cm / 25 inches.

This drawing illustrating the leg length dimension of rider and method of measurement of this dimension.



For safe and comfortable riding there should be a clearance of between 25mm and 50mm between the groin area of the intended rider and the top tube of the bicycle frame, while the rider straddles the bicycle with both feet flat on the ground.

ELECTRICAL HAZARD: WARNING

CAUTION!

THIS IS AN ELECTRICALLY OPERATED PRODUCT AND SHOULD BE OPERATED WITH CARE. KEEP AWAY FROM SMALL CHILDREN.

BEFORE RIDING, ALWAYS MAKE SURE THAT THE BATTERY RETAINER IS FIRMLY IN PLACE AND HOLDING THE BATTERY SECURELY.

PREVENTING A FIRE:

a) Never modify the electrical system or battery charger. Modifications of these systems can result in fire, serious injury and damage to the electrical components.

b) To avoid damaging the battery, do not use the charger if it has been struck, dropped or damaged in any way.

c) Do not expose the battery to high temperatures as this may cause the battery to explode.

d) Never allow the battery charger to become wet, and never place it in water.

e) Use of the wrong type of battery or charger could cause a fire or explosion resulting in serious injury.

f) Never use Minimoto™ parts, battery, or components in any other products or vehicles other than the MINIMOTO™ HYBRID. Replacing or substituting parts with other vehicles can result in overheating, fire, or explosion. Only use MINIMOTO™ parts, battery or components in the MINIMOTO™ HYBRID because using or substituting other parts can result in overheating, fire, explosion or mechanical breakdown.

g) The battery is to be handled by ADULTS ONLY. The battery is heavy and contains a lead-acid electrolyte. Dropping the battery can result in serious injury.

h) Never allow children to recharge the battery. Charging the battery must be done by ADULTS ONLY. A child could be injured when involved in the operations of battery charging or use of electrical devices.

i) Make sure that all battery contacts or connectors are clean and free of excessive wear or damage whenever the battery is charged. If ANY damage is detected, DO NOT USE the charger or battery until you have replaced the worn or damaged part.

j) Always remove the Key when your MINIMOTO™ is not in use to ensure the power is off. Prevent any unauthorized riders from attempting to ride the bike.

VEHICLE ASSEMBLY AND SET UP:

CAUTION: The included tools to set up and charge the Minimoto™ Hybrid should be used by an ADULT ONLY. The package contains some small parts. Keep away from small children.

1) Completely remove the Minimoto™ Hybrid from the package and support it with the use of the kickstand **(Fig. 1)**.

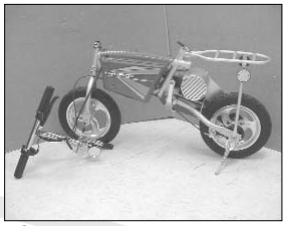


Fig 1

2) Locate all of the parts before discarding the package **(Fig. 2)**.

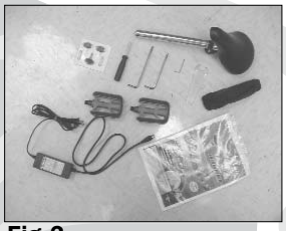


Fig 2

3) The first step is to remove a protective plastic cover from the end of the steering column. Do to this, first unscrew and loosen the bolt using an one of the Allen head keys **(Fig. 3A & Fig. 3B)**.

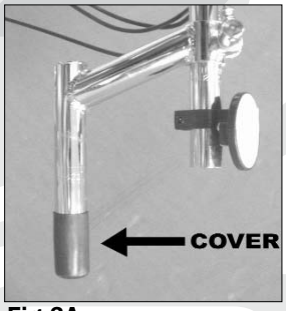


Fig 3A

Fig 3B

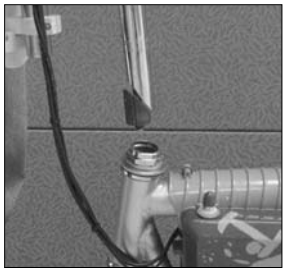


Fig 4

4) After a few turns of the Allen Key, the plastic cover should slide off. Throw the plastic cover away.

5) Slide the steering column into the front fork **(Fig. 4)**.

6) Use the Allen key to tighten the steering column firmly so it won't move.

7) Adjust the handlebars so they are square with the body **(Fig. 5)**. FIRMLY tighten the lever clamp until the bars do not move.

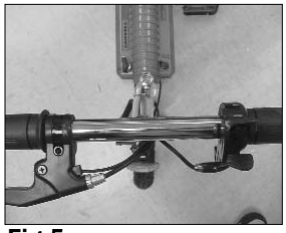


Fig 5

WARNING: The handlebars must not be able to move while riding!. ALWAYS test the handlebars before riding to make sure they will not slip, rotate, or are able to be forced from their desired position. If the handlebars move while riding, it is very possible to loose control and fall. Adjust or tighten the handlebars as necessary.

8) You may need to adjust the position of the throttle. This is done by using a small Allen key to release the screw **(Fig. 6)**. Next, rotate the throttle control into the best position **(Fig. 7)** and retighten FIRMLY with the small Allen key.

Fig 6

Fig 7

VEHICLE ASSEMBLY AND SET UP: (Cond't)

9) Slide the seat into the frame **(Fig. 8)**. Make sure that the indentation marks on the tube are NOT VISIBLE when tightening. If you can see these marks, the bike seat is UNSAFE to be ridden. Slide the seat further down and retighten.

10) Locate the RIGHT and LEFT markings on the Foot Pedals **(Fig. 9)**. Screw them by hand into the right and left side of the bike pedal arms. Tighten them firmly using the included wrench.

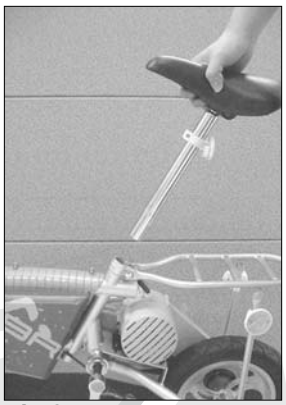


Fig 8

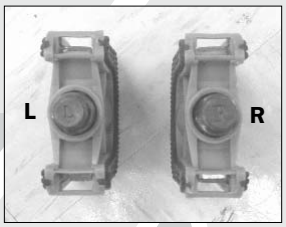


Fig 9

INSTALLING THE MAIN FUSE:

The MAIN FUSE MUST be installed before charging or the bike will not charge.

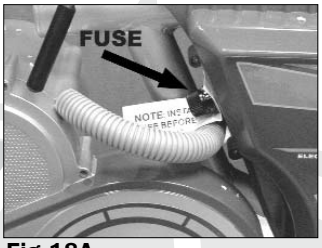


Fig 18A

Locate the Main Fuse near the flexible cable between the plastic body and the motor. **(Fig. 18A)** [**NOTE:** There is a tag to help you locate this. Remove the tag after you have found the Main Fuse location].

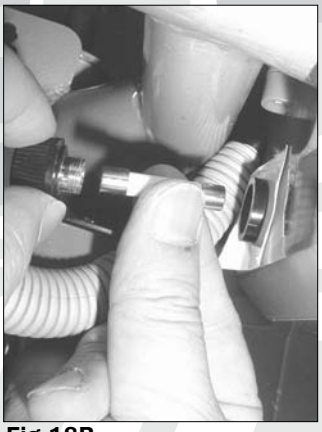


Fig 18B

Unscrew the Fuse Cap and place the Fuse in the holder. **(Fig. 18B)** Tighten the Fuse cap until secure.

IMPORTANT!

In the event of extraordinary heat or temporary malfunction of the brake after a prolonged or aggressive use, stop riding the bike immediately. Call the Minimoto Customer Service Center at the Toll-free number before further use.

BRAKE ADJUSTMENT:

IMPORTANT! You must inspect the adjustment of the hand brake before attempting to ride on your MINIMOTO™ HYBRID bike.

Fig 10

The brakes will need to be adjusted over time. Tightening or loosening the brake adjustment knob can obtain minor brake adjustments. This knob is located next to the hand brake. To do this adjustment, loosen the nut and turn the conical shaped knob to adjust the brake **(Fig. 10)**. Retighten the knob with the nut when the appropriate feel of the brake is found **(Fig. 11)**.

Fig 11

If the brakes need a more drastic adjustment, use the wrench to loosen the nut that connects the cable to the rear wheel **(Fig. 12)**. When the nut is loosened, pull the brake cable tight until there is no slack in the cable. Retighten the nut securely **(Fig. 13)** and check the brakes again before riding.

Fig 12

Fig 13

STORAGE CARRY AREA:

Behind the rear seat is a storage carry area for you to carry small items (such as school books). Hold your items down by using bungee cords or rubber bands (not included).

BATTERY CHARGING INFORMATION:

IMPORTANT: The new battery provided in the MINIMOTO™ HYBRID bike MUST BE charged for at least 12 hours before using for the first time.

The charger MUST be used only in a clean, dry area. In addition:

- Battery charging must be done by ADULTS only.
- The battery must be upright when charging.
- The charger is not a toy.
- Do not short-circuit the battery.
- Do not charge the battery on any delicate surfaces (such as a counter top).
- Only use the provided charger to charge the battery.
- Only use a MINIMOTO™ HYBRID bike battery or battery when operating.
- Remove old or dead batteries from the MINIMOTO™ HYBRID bike if they do not accept a charge.
- Never use the charger in an enclosed space. Always ensure adequate ventilation.
- Never cover the electric mini bike or the charger during charging.
- Should anything abnormal happen to the electric mini bike or charger, switch off the mains supply immediately and contact your dealer.

IMPORTANT:

Under normal conditions, the battery will reach full charge in 8 to 20 hours of charging time. The difference in time depends on the local power output in your area, the type of outlet you use, and the condition of the battery.

NOTE: Do not connect the charger to a surge protector. You should only plug the charger directly into a standard electric wall outlet. Surge protectors can slow down the charging process.

STEPS TO CHARGE BATTERY:

1) Turn the Key to the OFF position.

Fig 14

2) Pop open the protective rubber cover of the charging receptacle and the plug the charger into the port. **(Fig. 14)**.

3) Plug the cord of the charger into a standard 120 V wall socket. Make sure the wall switch is in the ON position and electricity is reaching the socket.

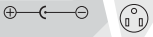
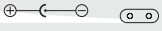
NOTE: When properly charging the RED LED light will be ON. If the GREEN LED is ON, then battery is fully charged OR the connector is not plugged into the charging port. Check to see that the charging port is fully engaged when first attempting to charge.

BATTERY CARE:

If a battery appears to be leaking, avoid contact with the leaking materials. Place the battery in a plastic bag.

WARNING: This liquid and contents of the battery are highly acidic. Wash your hands immediately and thoroughly for a minimum of 15 minutes. Call a physician. Do not touch your face or eyes. **If acid is internally ingested**, IMMEDIATELY give water, milk, egg whites, or milk of magnesia. Never give emetics or induce vomiting. CALL A PHYSICIAN IMMEDIATELY.

- Use ONLY a MINIMOTO™ HYBRID battery.
- Never charge the battery for more than 30 hours
- Charge the battery after each use.
- Avoid running the battery completely as this will greatly shorten their useable life.
- Never leave the battery in an uncharged condition. This will permanently damage it and prevent it from being able to hold any charge.
- Disconnect the battery from the wiring if the MINIMOTO™ HYBRID is to be stored more than 2 months.
- Do not store the batteries in temperatures above 75 degrees F or lower than –8 degrees F.
- Check to make sure the batteries are securing in place before riding the HYBRID. Tighten the battery retainer if necessary.

Country	Input	Output	Polarity	Shape
U.S./Canada Taiwan/Japan	A.C. 100-120V 60Hz	d.c. 12V 1500mA		
U.K./Hong Kong/ Singapore/Malaysia/ Africa	A.C. 220-240V 50Hz	d.c. 12V 1500mA		
Europe/Germany/ Israel	A.C. 220-230V 50Hz	d.c. 12V 1500mA		
Australia/ New Zealand/China	A.C. 240V 50Hz	d.c. 12V 1500mA		

RIDING RULES:

Direct adult supervision is required when riding.

Adults should teach the appropriate safety rules and methods before allowing anyone to ride the MINIMOTO™ HYBRID. The rules should be reviewed with any children in the vicinity that may want to ride the mini-bike.

1) The following areas are to be avoided when riding the MINIMOTO™ HYBRID:

a. Cars or traffic

b. Streets or alleys

c. Steps, curbs or steep inclines

d. Swimming pools, puddles, ice, or bodies of water

e. Any area that could potentially cause harm to humans, animals, or property. Ride only in areas where permission has been granted.

2) Do not use on roads or public streets, as this is illegal and dangerous.

3) Never ride the MINIMOTO™ HYBRID at night

4) Never ride with more than one rider. Maximum allowable weight of the rider should not exceed 175 lbs (80kg).

5) Always wear appropriate shoes, clothing, and protective gear. Protective gear includes the use of a helmet, knee pads, and elbow pads (not included).

6) Do not use the MINIMOTO™ HYBRID for jumping, stunts or tricks. This product has not been designed for such use.

7) Do not touch the motor or wheels while they are rotating.

8) Keep hands, face, feet and hair away from all moving parts.

9) Do not ride down or across steep inclines. The MINIMOTO™ HYBRID can reach unsafe speeds, loose traction, or slide or collide with other objects. Ride only on level ground.

10) Never ride near flammable liquids or vapors such as gasoline, acetone or paint thinner. Keep all flammable materials away from the MINIMOTO™ HYBRID.

11) Never where headphones or use a cell phone when operating.

12) Ride defensively. Remember that others around you may not see you or may be to involved in their own actions.

13) Learn about and observe your local laws regarding use.

14) Riders must be over the ages of 8. Keep away from small children.

PRE-RIDE CHECKLIST:

Your MINIMOTO™ HYBRID bike is just like any vehicle. It requires routine maintenance, service, and inspection to operate reliably and safely. The following list must perform each check from the list below before each ride.

- Look over the entire unit to ensure that there are no visible problems with the MINIMOTO™ HYBRID.
- Check that the handlebar nut is TIGHT.
- Check the tires, ensuring there are no cuts or exposed cords or THE TIRES ARE deflated.
- Check that all cables and wires are not frayed, cut or broken.
- Check that the brake lever is tight on the handlebar.
- Pull the brake lever to make sure that:
  1. The brake releases automatically.
  2. The brake holds the MINIMOTO™ HYBRID bike from being pushed forward.
- Check that the throttle control is tight on the handlebar.
- Check that all 4 axle nuts are tight and the wheels do NOT WOBBLE as if they appeared **loose.**

HOW TO RIDE YOUR MINIMOTO™ HYBRID BIKE:

NOTE: It will take a little practice to get used to riding. Take it slowly and start in a location that is very open and away from obstacles or obstructions.

1) Move the Kickstand up.

2) Put the key in the lock and move it to the ON position **(Fig. 15)** (**Note:** the bike will NOT RUN unless the key is in the lock)

Fig 15

3) Mount and ride the Hybrid bike as you would any normal bicycle. DO NOT USE THE ELECTRIC POWER TO ATTEMPT A TAKE OFF

4) Once you are riding and have attained a comfortable ride, move the throttle control switch down slowly **(Fig. 16)**. You will feel the electric motor start to kick in.

Fig 16

5) Ride and pedal normally. Use the electric motor for going up inclines or for additional coasting.

NOTE: Continuous use of the electric motor will reduce the total running time dramatically. Try to use the battery assist when you need or want it the most.

6) BE CAREFUL: The MINIMOTO™ HYBRID bike can reach speeds up to 10 MPH on a level surface (depending on the surface terrain and the weight of the rider).

SPECIAL SAFETY WARNINGS:

1) When accelerating please ensure that you start slowly & precisely.

2) The brakes are designed to control speed as well as stop the vehicle. Practice braking for slow-down and smooth stopping.

3) Never operate the throttle control when the wheels are off the ground or the bike in an upside down position.

PERIODIC BRAKE ADJUSTMENT:

As the brakes are used, they may require an occasional adjustment to keep them at peak performance. To do this, adjust the hand brake by turning the screw nut **(Fig. 17)** of the hand brake. Start the motor and try the brake to see if it works properly before riding.

Fig 17

TIRE INFLATION PROCEDURE:

WARNING: Tire inflation must be done ONLY BY AN ADULT. NEVER inflate the tires above 45 PSI. **The recommended tire pressure is 40 PSI.** Tires should be inflated with a standard "bicycle" type pump. Inflation at an Automobile service station can easily result in over inflation of the tires. Over inflation of the tires can result in serious injury or even death.

Before inflating any tire, make sure the key is removed from the lock.

To inflate the tires, unscrew the protective cap from the valve stem and attach the bicycle pump as you would with any bicycle.

TIRE REPAIR:

In the event that a tire should consistently loose air pressure, the tires can be repaired at a local bicycle repair shop. The tires have an inner tube construction.

WARNING: Inspect tires regularly.

1) If the tire tread is worn to the point where the grooves are difficult to see, replace the tire(s) immediately.

2) If the tire tread shows uneven wear, check the axle to make sure the wheel is loaded evenly and correctly. Uneven wear may be a sing of uneven loading.

3) If the rims (wheels) are bent or cracked, they must be replaced.

REPLACING THE MAIN FUSE:

The main fuse is located near the flexible cable that runs from the body to the electric motor.

If the fuse is blown, the MINIMOTO™ HYBRID BIKE will completely shut down. Unscrew the fuse cap and inspect the fuse to see if it is broken **(Fig 18)**. Some replacement fuses are included with your Minimoto™. If you should require more, a replacement can be found at any local automotive parts store. The type of the fuse is 25A. DO NOT ATTEMPT to use a larger Amperage fuse than specified as this may result in the burning of the electrical circuits.

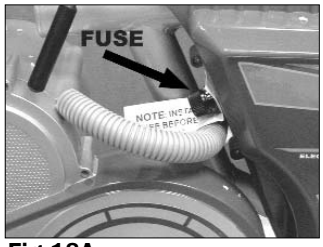


Fig 18A

Fig 18B

IF YOU LOSE THE KEYS:

Take your MINIMOTO™ HYBRID bike to local Locksmith. For a charge, they will be able to create a new key. **NOTE:** Keys can be obtained by calling the Minimoto Service Center for a fee. You can have your key duplicated at any Key Shop or kiosk. It is a good idea to store an extra key in a safe place.

REPLACING THE BATTERY:

1) Remove the Key from the Lock

2) Remove all bolts from the main body. **(Fig. 19)**

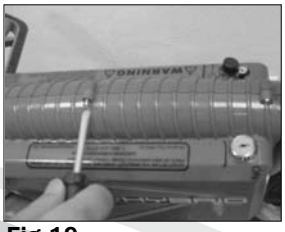


Fig 19

3) Carefully separate the right and left main body off of the frame **NOTE:** Do not remove it entirely from the bike — just lift off and to the side.

Fig 20

4) Unscrew and loosen the battery retainer. **(Fig. 20)**

Fig 21

5) Carefully disconnect the electrical plug between the battery and the wiring harness. **(Fig. 21)**

6) Remove the battery.

7) Reposition the battery in the location of the old battery.

8) Retighten the battery retainer so the battery securely held. Reconnect the plugs.

9) Replace main body, and seat in reverse order

10) Charge the new battery before attempting to ride again.

Non-rechargeable battery is not to be charged.

Battery charging must be done by ADULTS only.

Only battery of the same or an equivalent type as the recommended battery is to be used.

Use only Minimoto™ replacement batteries.

Battery is to be inserted with the correct polarity.

Remove old or dead battery from the MINIMOTO™ HYBRID BIKE. If they do not accept a charge.

Do not short-circuit the battery and the connectors.

REPLACING THE CHAIN IF IT "POPS OFF":

It is possible that under extreme conditions one of the chains may pop off.

If this occurs, the motor will run but the rear wheel will not turn under power. The chain can be replaced onto it's original position by following these instructions:

WARNING: Whenever removing the protective chain cover, YOU MUST DISCONNECT the battery. This will ensure no possibility of the motor or chain running accidentally while working in this area. Refer to the section on "Replacing the battery" in this instruction manual for this operation.

1) Support the bike so that the rear wheel is not touching the ground

IMPORTANT: Make sure the bike will not fall over in this process. Work on a work bench or in a area with plenty of space.

2) Remove the four phillips head screws of the chain cover **(Fig. 22)**.

3) Unsnap and slide apart the upper and lower chain cover **(Fig. 23).**

4) Place the chain over the MOTOR gear or (smallest gear) first. Use your fingers to keep some tension on it **(Fig. 24)**.

Fig 22

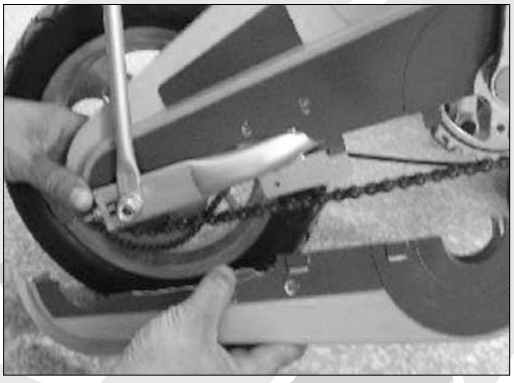


Fig 23

Fig 24

5) Place the chain on the top of the rear wheel gear about half way around **(Fig. 25)**.

6) Carefully move the wheel and gear so that the entire chain pops back on **(Fig. 26)**.

7) Replace the chain cover in reverse order.

8) Reconnect the battery.

Fig 25

Fig 26

BATTERY DISPOSAL:

Always dispose of unwanted or used battery in a safe and environmentally friendly manner. DO NOT throw the battery into your regular household trash. Law prohibits the disposal of lead-acid battery by incineration, placing them in a landfill, or mixing them with other rubbish.

NEVER expose the battery to FIRE. The battery may leak or explode.

Always return your unwanted battery to a local federal or state approved lead-acid recycling center or an authorized automobile battery seller. For residents in the states of Florida and Minnesota, it is ILLEGAL for anyone to attempt to dispose of lead-acid battery in a municipal waste stream.

TROUBLE SHOOTING:

Problem	Probable Cause	Solution
The Hybrid bike does not run on electric power.	1) The key is not in the lock. 2) The battery is low. 3) The fuse is blown. 4) The charger is not working. 5) The battery is dead. 6) The wires are loose.	1) Make sure the key is in the lock and in the "ON" position. 2) Charge the battery. 3) Inspect the fuse to see if it is blown. replace if necessary. 4) Check to see if the wall socket is in the "ON" position and the red light is on the charger. 5) If the battery is old or has been abused, it will need to replaced 6) Check all connectors.
The Hybrid bike motor was running but it suddenly stopped.	1) Low battery voltage. 2) Blown fuse. 3) Loose connectors. 4) The brake is not properly adjusted.	1) The electronic circuit will AUTOMATICALLY DETECT when the voltage is too low for the bike to run. Recharge the battery. 2) Inspect and replace the fuse. 3) Check all electrical connections. 4) Adjust the brake as described in this manual.
The Hybrid bike key is in "ON" position but when I move the throttle switch, the back wheel won't turn under electric power.	1) The charger is still connected. 2) The brake is too tight. 3) The fuse is blown.	1) Disconnect the charger. 2) Adjust the brake to loosen the tire. 3) Check the fuse, replace if necessary.
The brake is too tight or loose.	The brake cable is out of adjustment.	Adjust the brake cable to proper tension.
The handlebar moves when I ride the bike.	The handlebar stem is too loose.	Tighten the nut on the top of the steering column and adjust the handlebar.
The charger gets warm when I recharge the batteries.	This is normal.	No action necessary.
The battery only lasts about 15 minutes when I ride the bike under continuous power.	This is normal. The battery power is intended for coasting or for extra power when needed.	No action necessary. Recharge the battery normally.
The battery makes a slight sizzling or gurgling sound when it recharges.	This is normal.	No action required.

Problem	Probable Cause	Solution
The fuse blows too often.	To much current is being used to power the bike.	1) Make sure the weight limit is not being exceeded. 2) Do not ride the bike up a steep grade without pedal assistance. 3) The riding surface is too rough, run on a smoother surface. 4) You are resting your feet on the ground when beginning to take off — start to pedal your bike first, then use the electric power assist.
The red LED always stays on.	1) The battery is not being properly charged. 2) The battery is too old or has been abused. 3) You are not plugged directly into a wall socket.	1) Make sure all connectors are clean. Repair if necessary and the plug is properly placed in the bike's receptacle. 2) Replace the battery. 3) Don't use a "surge protector". plug the charger directly into a wall socket.
The Hybrid bike runs sluggishly.	1) The battery is undercharged. 2) The battery is old. 3) The conditions and surfaces you are on are too extreme. 4) The bike is overloaded.	1) Charge the battery 2) Even under perfect conditions, the battery will only last about 1 to 2 years. If your battery is old or has been abused or left uncharged for a long period of time, it may need replacing. 3) Try to run on smooth, flat surfaces only 4) Make sure the rider does not exceed the 175 lb LIMITATION.

If you have tried these solutions but the problem still exists, contact the Minimoto™ Service Center for advice or assistance. They will assist you in getting quickly on the road. PLEASE CHARGE THE BATTERY FULLY (if possible) before calling the center as this will speed up the checklist. Have the HYBRID near the phone so you can do the various tests quickly.

www.teamminimoto.com

or email

customerservice@teamminimoto.com

LIMITED WARRANTY AND REGISTRATION:

The manufacturer warranties this product, including the batteries, to be free of manufacturing defects for a period of 180 days from the date of purchase. This limited warranty does not cover the normal wear and tear, tires, inner tubes, cables, or any damage, failure, or loss caused by improper assembly, set up, storage, or maintenance of the MINIMOTO™ HYBRID. PLEASE SAVE YOUR ORIGINAL SALES RECEIPT.

The warranty is VOID if the product is used in any other manner than recreation or transportation, is modified, or used in for commercial purposes. The warranty does not cover the vehicle or battery damaged by unreasonable use, neglect, accident, abuse, misuse, improper service, or other causes not arising out of defects or workmanship.

Evidence of any attempt of repair done by the consumer (other than tires and normal adjustments) will void the warranty.

This warranty does not cover, and is intended to exclude, any liability on the part of the manufacturer, whether under this warranty or implied by law or any indirect or consequential damages for breach of warranty. Toyquest's and the manufacturer's liability hereunder is expressly limited to the replace of goods not complying with the warranty of, or at Toyquest's election, to the repayment of and amount equal to the purchase price of the product in question. Some states do not allow the exclusion or limitation so this limitation may not apply to you.

WARRANTY DOES NOT INCLUDE REPLACEMENT NORMAL WEAR AND TEAR OF EITHER BRAKE PADS OR TIRES. IT ALSO DOES NOT INCLUDE BODY OR FRAME PARTS DAMAGED DO TO ACCIDENT, ABUSE, OR IMPROPER ASSEMBLY.

Check local laws and regulations in your area before riding to determine where you can legally ride your MINIMOTO™ HYBRID.

REGISTRATION CARD:

To obtain warranty repairs or assistance, you must contact the Minimoto Repair Center before the warranty expires.

Contact is most easily arranged by email:

customerservice@teamminimoto.com

It is also possible to register by mailing the included form to the following address:

Toy Quest
C/O Minimoto Service Center
1800 N. 9th Street
Indianola, Iowa 50125

VIN NUMBER:

Fig 27

Each MINIMOTO™ HYBRID bike has a unique VIN (vehicle identification number) inscribed on the chassis. The location of this VIN is located under the bike near where the pedal arms connect with bike frame: **(Fig. 27)**. You will need to locate this information when registering and applying for warranty service.

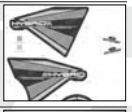
PLEASE SAVE YOUR ORIGINAL RECEIPT.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

APPENDIX:

REPLACEMENT PARTS LIST for MINIMOTO™ HYBRID.

Spare Part Number	Spare Part Name	
15428-MIS-001	12 volt battery	
15428-MIS-002	12 volt battery charger	
15428-ASM-001	Right side body	
15428-ASM-002	Left side body	
15428-MIS-003	Seat assembly	
15428-ASM-003	Handle assembly top	
15428-ASM-004	Handle assembly bottom	
15428-ASM-005	Chain cover	
15428-ASM-006	Motor cover	
15428-MIS-004	Electronic module	
15428-MIS-001	Key Qty : 3	
15428-MIS-005	Key switch	
15428-MIS-007	Fuse holder	
15428-MIS-008	Fuse Qty : 2	

Spare Part Number	Spare Part Name	
15428-MIS-009	Front Tire and hub	
15428-MIS-010	Rear Tire & brake assembly	
15428-MIS-011	Drive chains Qty : 2	
15428-MIS-012	Nut and bolt assortment	
15428-MIS-013	Charging port	
15428-ASM-007	Charging port cover	
15428-MIS-014	Motor	
15428-ASM-008	Frame	
15428-MIS-015	Label sheet	
15428-MIS-016	Kickstand	
15428-MIS-017	Throttle switch assembly	
15428-MIS-018	Brake switch assembly	
15428-MIS-019	Brake cable	
15428-MIS-020	Tool kit	

Important: You must charge your MINIMOTO™ HYBRID a minimum of 12 hours before you can use it.

RECHARGE the battery EACH TIME you use it.

TO PROTECT THE LIFE OF THE BATTERY, recharge the battery at least once a month.

FOLLOW ALL SAFETY RULES AND SET UP INSTRUCTIONS IN THIS MANUAL THOROUGHLY. FAILURE TO DO SO MAY VOID YOUR WARRANTY.

DO NOT RETURN THE MINIMOTO™ HYBRID TO THE STORE! IF YOU ARE MISSING PARTS OR NEED ASSISTANCE, PLEASE CONTACT US BY:

email at

customerservice@teamminimoto.com

OR call us TOLL-FREE by:

1-800-434-6178

8 AM TO 4 PM EST,

Monday through Friday,

(excluding holidays)

MINIMOTO™

HYBRID

ELECTRIC ASSISTED BIKE

TOY QUEST®
A DIVISION OF MANLEY

15428

www.toyquest.com

 # 15428
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15428 1.0(08/04)